

# Blast

## Introduction

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## Blast

**Blast** is a way to find sequence similarity in IMG.

**Blast** can be selected and viewed alphabetically via the second-level menu under **Find Genes**, as shown in Figure 1.



Figure 1: Access Blast.

In IMG 3.3, the **Genome filter** is applied to **Blast**, and contributes to its new look-and-feel, as shown in Figure 2.

The behavior of **Genome Filter** in **Blast** is slightly different from that in **Find Genes**, **Find Functions**, etc.. Even if there's genome selection, the **Genome Filter** in **Blast** is still defaulted to "All IMG Genomes", and the search is conducted on "All IMG Genomes". However, user can override the selection via the **Genome Filter** provided in the page, if user has selected and saved genomes.

# BLAST

Find matches in selected genomes ("All IMG genomes" if none are selected).

If there are selections in Genome Browser, please use "Show All/Selected Genomes" buttons to access "All IMG genomes" or "Currently selected genomes from Genome Browser".

<b>Sequence</b>	
<b>Program</b>	blastp (Protein vs. Protein) ▾
<b>E-value:</b>	1e-5 ▾

## Genome Filter

Domains: (B)acteria, (A)rchaea, (E)ukarya, (P)lasmsids, (V)iruses.

Genome Completion: [F]inished, [P]ermanent Draft, [D]raft.

<b>Seq. Status</b>	<b>Domain</b>
All Finished, Permanent Draft and Draft ▾	All ▾

List  Tree

- Acidilobus saccharovorans 345-15 (A)[F]
- Aciduliprofundum boonei T469 (A)[D]
- Aciduliprofundum boonei T469 (A)[F]
- Aeropyrum pernix K1 (A)[F]
- Archaeoglobus fulgidus DSM 4304 (A)[F]
- Archaeoglobus profundus DSM 5631 (A)[F]
- Caldivirga maquilingensis IC-167 (A)[F]
- Candidatus Korarchaeum crypto filum OPF8 (A)[F]
- Candidatus Methanoregula boonei 6A8 (A)[F]
- Cenarchaeum symbiosum A (A)[F]

<input type="button" value="Run BLAST"/>	<input type="button" value="Reset"/>
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Figure 2: Blast.